

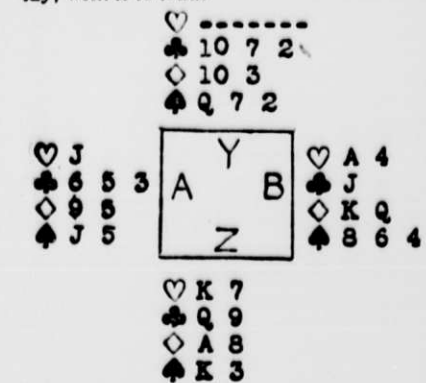
## PROBLEMS FOR SUN READERS TO SOLVE

Clubs or No Trumps, Either One the Answer in This Bridge Hand.

### INGENIOUS MAGIC SQUARES

Puzzles in Stars—Checkers End Game With "Great Wallop" In It.

In the position shown in bridge problem No. 169 the question was to determine not only the greatest number of tricks possible to win with the Y and Z hands but also whether the declaration was clubs or no trumps. Here is the way the cards lay, with Z to lead:



The lawyer took the no trump end of it and the doctor took the clubs for trumps and they came to the conclusion that there were eight tricks in it either way; but upon making their report to the doctor's friend in Buenos Ayres it appears that the hand was actually a club declaration and that Z got only seven tricks. The man who bet he should have got more was correct. The play is the same, regardless of the declaration. Z exhausts the clubs by starting with the queen, and Y overtakes the nine with the ten, so as to lead a third round, forcing two discards from B. And it is these discards that solve the problem. Y and Z meeting any of their five varieties with the proper attack.

B may discard two hearts, two diamonds, two spades, a heart and a diamond or a heart and a spade. If he lets go two hearts he makes the two hearts in Z's hand good for two tricks. If he discards two diamonds he makes two of that suit good against him; if he discards two spades he makes three of that suit good, instead of two only.

In providing for two discards his first choice is easily a heart, as he cannot afford to let even one spade go without unguarding the suit, and he cannot let go a diamond without making Y's ten good.

On the second discard to the third trick, if B lets go a diamond, Z throws away a small heart, Y leads a small diamond for the fourth trick, and gets in again with the ten on the next trick. Now, if B has discarded the ace of hearts, Y leads a spade and Z makes his two kings and returns the spade for Y to make the last trick with the queen.

If B lets go a spade on the third trick Z still discards the small heart, but Y leads a small spade instead of a diamond, Z winning with the king and returning the suit, so that Y shall make the third spade at once, forcing another discard from B, who must let go a diamond or give up the ace of hearts.

If B discards another heart for the third trick Z will change his discard to a diamond and Y will lead a small diamond to him. Z will make two heart tricks and the spade king, letting Y win the last trick with the queen of spades.

A number of solvers fell into the same error as the person who originally played the hand and got only seven tricks out of it with clubs for trumps. This was because they tried to use the clubs as trumps and started by leading a small heart for Y to ruff.

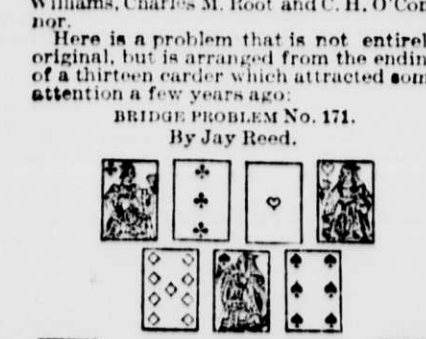
By putting Z in again with a diamond Y gets another ruff in hearts, A discarding a diamond, but as this leaves A with three trumps he must make one of them, as Y cannot get rid of his diamond. All he can do is to put Z in with a spade, get back with a spade and lead a third one for Z to ruff with the nine of clubs, so as to shut out A. Now if Y had no diamond he could ruff that suit with the ten and make the last trick with Z's queen of trumps, but as A has got rid of his diamond and Y has lost this ending is impossible, and Y-Z lose a trick.

The following sent in the correct solution, which is that no matter which was the declaration Y and Z get eight tricks, so that the bet between the doctor and the lawyer was a standoff:

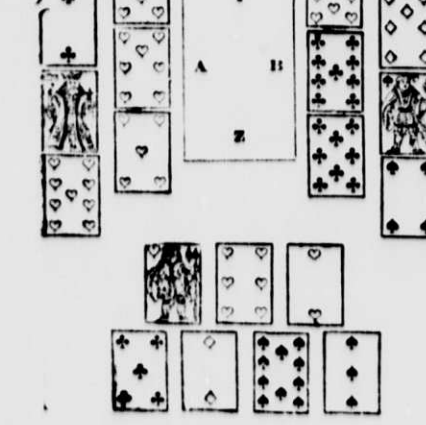
Harry Asher, Merrimack, W. Ogden, James Hunter, Jay Reed, Algernon Bray, H. A. McLehlan, Burton D. Blair, Frank Roy, J. W. Miller, W. P. W., E. Beebe, James Steen, E. M. Frost, George Hendricks, H. E. W., H. C. Root, George R. Glover, C. E. Johnson, Henry Anderson, J. W. Wortz, B. G. Braune, C. E. Lynn, Terry Gates, Milton C. Isbell, W. A. Bulkeley, D. Perry, D. A. W., Kenneth S. Hogg, George R. Hann, Keynote, Herbert R. Bitter, O. H. Boston, H. C. Hie, J. B. M. C., J. W. Cronwell, Jr., A. J. Schmutz, William H. Haynes, Pauline Newbold, A. C. Sherrwood, W. T. Bauskett, H. K. Thaw, D. Shingler, Max Williams, Charles M. Root and C. H. O'Connor.

Here is a problem that is not entirely original, but is arranged from the being of a thirteen carder which attracted some attention a few years ago:

BRIDGE PROBLEM NO. 171.  
By Jay Reed.



The problem is to fill in each of these fourteen circles with a number, anything from 1 to 50 will do, but to have no two numbers alike, and so to arrange them that each of the seven rows of four circles shall add the same.



Clubs are trumps and Z is in the lead. Y and Z want five of these seven tricks against any defence. How do they get them?

CHECKER ENDINGS.  
As Frank Roy remarks, the position shown in No. 169 has a great wallop in it. Here is the distribution: Black men on 6, 10, 21, kings on 14 and 15. White men on 7, 23, 30, king on 25. White to play and win. Here are the moves that solve:

White. Black.  
25 10  
30 26  
7-2 21-30  
2-20 30-23

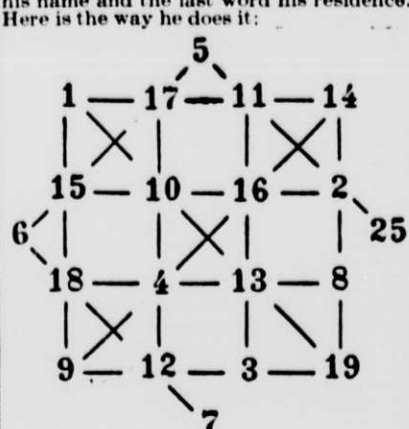
By giving away three men one after the other white obtains a winning position of king against king. Correct solutions from:  
C. L. Lynn, C. H. O'Connor, Herbert D. Martin, Frank Roy, Peter Monsouris, E. F. Duffy, Frank C. Husted, W. J. Hatfield, O. H. Boston, Lemon Thomson, Robert T. Blair, William C. H. W. Wortz, E. C. Werdann, E. H. Decker, Country Nutmegger, E. R. Leith, Milton C. Isbell, Herman Herat, Jr., James Steen, W. T. Allen and J. W. Miller.

Here is a position that should prove instructive for the beginner.

PROBLEM NO. 171. CHECKERS.  
Black.



THE STAR AND SQUARE.  
So far there have been only two correct solutions to this problem. One came from a correspondent who always signs himself "O. H. Boston," the initials being those of his name and the last word his residence. Here is the way he does it:



As this uses all the numbers from 1 to 25 in order and then skips to 25 it is hardly likely that it can be beaten, especially if 42 in a row is the lowest possible, and this solution gives only 43 in a row, with a grand total of 215, which shows that the young man got 85 pieces of silver for his trouble.

Charles D. Shuldham of Milburn, N. J., after being in third place last week with a total of 45 from the line, got it down to 43 by using all the numbers up to 22 except 17 and 21. It is curious that both he and O. H. Boston worked out the solution by algebra.

There were in all 63 solutions sent in for this puzzle. Of the solvers fifteen or twenty thought it could not be done under 300. Only the two whose names were given last week got it down to 43. Eight got it to 46, and a large number hit 48, 49 and 50. The last figure was the favorite.

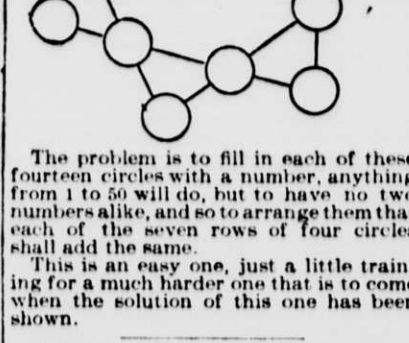
As no one seems able to guess at the trick in the magic square printed two weeks ago, which was suggested to THE SUN by one of its crack solvers, E. Leppinger of New Haven, Conn., the solution may as well be given now without prolonging the agony.

Had any person taken the simplest of all magic squares of nine cells, several of which have appeared in this column, with 4 9 in the top row, 3 5 7 in the next, and 8 1 6 at the bottom, and then followed the direction given with the puzzle, which was to transpose the figures into words, there would not have been much difficulty in getting this:

FIVE TWENTY  
SIX TWENTY  
THIRTY NINE  
EIGHT NINETY NINE  
SEVEN ON THREE  
SEVEN NINETY EIGHT  
SEVENTY EIGHT THIRTY EIGHT  
EIGHT ON THREE  
SEVENTY NINE

The only letters in these words that can be read as Roman numerals are picked out and enlarged, so as to show that they will fulfill the conditions of the magic square.

SEVEN POINTED STARS.  
It is rather curious that as the number of points in a magic star is increased the easier it seems to be to find an arrangement of numbers which will add the same in every direction. Take the following figure for example:



The problem is to fill in each of these fourteen circles with a number, anything from 1 to 50 will do, but to have no two numbers alike, and so to arrange them that each of the seven rows of four circles shall add the same.

Amulets of European Sovereigns.  
From Le Cri de Paris.  
Every sovereign in Europe has faith in some amulet. William II. is in possession of several from which he is not separated. When he mounts his horse he puts on the spurs of Charles XII. of Sweden, and he never goes anywhere without the sleeve buttons which came to him from his grandfather. George made his triumphal journey to India with a little bracelet of platinum which he received from an intimate friend, who owed to this fetish an escape from some danger. The King of Sweden never makes a journey, not even a simple promenade, without wearing on his finger the ring of his ancestor, Bernadotte. The czar, who is extremely superstitious, always consults the almanac before setting out to know if the day is favorable to him. He fails to provide himself with a little lion to keep away bad luck. Alfonso XIII. is more sceptical. He calls the heads of the attempts that have been made upon his life and relies solely on his own luck to escape in the future from like dangers.

## REPLY TO THE BID OF ONE ROYAL BY DEALER

Interference With the Call by Third Hand Usually Dangerous.

### SIGNALS IN THE RED SUITS

Special Circumstances to Bear in Mind in Bidding at Auction.

Just as the third player has to be careful in his inferences as to the possibility of his partner's hand when the dealer starts with a bid of two spades, so he will have to be cautious about his answer to an original call of one royal, because it is usually dangerous to interfere with a bid of such value that it comes next to a no trump and takes two tricks in anything to overcall it.

The dealer who starts with a royal announces that he holds enough of the suit to be willing to play for the odd trick with spades for trumps, and that even if his partner has a better call, which would be no trumps, he would prefer to have such strength laid down on the table in his dummy as an assistance to his spade suit. In this respect the royal differs widely from the regular bids of one trick in hearts or diamonds, which used to be called the winning suits. A player will call one heart or one diamond with only four cards in the suit if two of them are the ace and king, and he will call if he has only three, provided they are the top honors, even if there is not another trick in the hand.

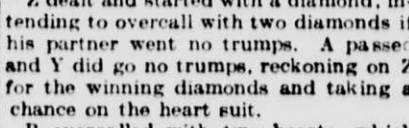
He does not want to play hearts for trumps, as it is probably the worst suit he could pick for such a purpose, but he wants to show his partner where his strength lies, so that the third hand may shape his course accordingly. As a recent writer puts it: "To understand the reason for bidding on short suits headed by winners in preference to long suits without them one must keep continually in view that the first round of the bidding is for the purpose of leading up to a no trump or a trump, and that when a player has not a no trump himself he still hopes for one in his partner's hand, and accordingly gives all the information he can as to his real strength. But the strength wanted in a no trump is not six cards to a ten, but ace and king. Even queens are of no value in original bids."

The only way in which the dealer can show in his original call that he wants hearts or diamonds for trumps, and that his cards in the suit are not good enough to be of any assistance to a no-trumper, is to declare two tricks in the suit at once. The conventional meaning attached to such an opening declaration, when made by a good player, is: "Let me alone, no matter what you have."

But few players care to assume the unnecessary risk on a blind bid, and the general custom with the red suits is to start with one trick and to be ready to overcall with two tricks in case the partner goes no-trumps. The persistence in returning to the suit first declared shows the third hand the difference between the hand with the short suit and winning cards, and the long suit with smaller cards, marking the distinction between an invitation to him to go no trumps and a wish to name the trump suit from your own hand.

While this system avoids the unnecessary risk of a two trick call at the start, it may prove difficult to carry out the theory if the partner turns out to be not the only bidder, because there is no way of setting him right after giving him a wrong impression at the start, except by repeating the call in the suit, regardless of expense.

The great objection to this system is the misleading of the partner by a bid that may mean either one of two things when a red suit is named, and which is not clear to him until the second round, and then only if he overcalls and is overcalled in turn. In order that the student may understand clearly how this system of bidding red suits differs from the system of bidding royals, here is a rather curious example of the misunderstandings that the old auction system of bidding on the winning suits sometimes led to:



Z dealt and started with a diamond, intending to overcall with two diamonds if his partner went no trumps. A passed and Y did go no trumps, reckoning on Z for the winning diamonds and taking a chance on the heart suit.

B overcalled with two hearts, which prevented Z from declaring two in diamonds and suggested to him that it would be better to show Y that he had the hearts stopped twice by doubling, which is what Z did.

When it got round to Y the situation seemed clear enough to him. He had a spade suit that should be good for six tricks and he has the clubs safe. Z has one or two sure tricks in diamonds, shown by his opening bid, and has the hearts stopped twice, shown by his double.

This being the situation, Y has a sure game hand at no trumps and sees no object in letting the double stand, so he overcalls with two no trumps.

At this point B saw his advantage. If he doubles the two no trumps he will probably frighten Z back into four diamonds (this being played at the old count), and he can then double that and defeat it if Z is the player who is long in both the red suits because he can exhaust Y's trumps and then make his two hearts, setting the contract in the first four tricks played.

Z did not see any need of pulling his partner out of the no trump, and had no idea that Y's bids were all based on Z holding the winning diamonds, so the hand was played with Y as the declarer and the contract was set for 200 points.

B started with the hearts, and as soon as he saw that dummy had no spades to lead he went right on with a third heart, putting Z in. Y saw that either way he played the club suit he would block it unless he could catch the king with the ace, so he took a chance on that and then led the small club, which allowed B to force his last trick.

Had Z led the diamond instead of the

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